

FORM PTO-1449  
(REV.7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
920010.448C8APPLICATION NO.  
09/167,516

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## APPLICANTS

Martin A. Cheever and Mary L. Disis

## FILING DATE

October 6, 1998

## GROUP ART UNIT

1642

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
KAC	AA 3,766,162	10/1973	Spector	260	112.R	
	AB 3,791,932	02/1974	Schuurs et al.	195	103.5R	
	AC 3,817,837	06/1974	Rubenstein et al.	195	103.5R	
	AD 3,850,752	11/1974	Schuurs et al.	195	103.5R	
	AE 3,901,654	08/1975	Gross	23	230.B	
	AF 3,935,074	01/1976	Rubenstein et al.	195	103.5R	
	AG 3,984,533	10/1976	Uzgiris	424	12	
	AH 3,996,345	12/1976	Ullman et al.	424	12	
	AI 4,034,074	07/1977	Miles	424	1	
	AJ 4,098,876	07/1978	Piasio et al.	424	1	
	AK 4,233,402	11/1980	Maggio et al.	435	7	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
KAC	AL WO 90/14357	11/1990	PCT		
KAC	AM WO 91/02062	02/1991	PCT		
	AN				
	AO				
	AP				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

KAC	AQ	Alper et al., "The Presence of c-erbB-2 Gene Product-related Protein in Culture Medium Conditioned by Breast Cancer Cell Line SK-BR-3," <i>Cell Growth &amp; Differentiation</i> 1:591-599, 1990.
KAC	AR	Bargmann et al., "The neu oncogene encodes an epidermal growth factor receptor-related protein," <i>Nature</i> 319:226-230, 1986.
KAC	AS	Baselga et al., "Phase II Study of Weekly Intravenous Recombinant Humanized Anti-p185(HER2) Monoclonal Antibody in Patients With HER2/neu-Overexpressing Metastatic Breast Cancer," <i>Journal of Clinical Oncology</i> 14(3): 737-744, 1996.

EXAMINER

DATE CONSIDERED

Karen A. Gamella

7/3/01

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KAC	AA	4,452,901	06/1984	Gordon et al.	436	506	7/3/01
KAC	AB	5,320,947	06/1994	Cheever et al.	435	29	7/3/01
KAC	AC	5,401,638	03/1995	Carney et al.	435	7.23	7/3/01
	AD						
	AE						
	AF						
	AG						
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	AJ						
	AK						

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KAC	AQ	Ben-Mahrez et al., "Circulating Antibodies Against C-myc Oncogene Product In Sera Of Colorectal Cancer Patients," <i>Int. J. Cancer</i> 46: 35-38, 1990.
KAC	AR	Ben-Mahrez et al., "Detection of circulating antibodies against c-myc protein in cancer patient sera," <i>Br. J. Cancer</i> 57: 529-534, 1988.
KAC	AS	Bishop and Orosz, "Limiting Dilution Analysis For Alloreactive, TCGF-Secretory T Cells. Two Related LDA Methods That Discriminate Between Unstimulated Precursor T Cells and In Vivo-Alloactivated T Cells," <i>Transplantation</i> 47(4): 671-677, 1989.

EXAMINER

Karen A. Gamella

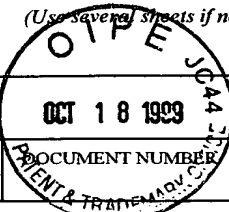

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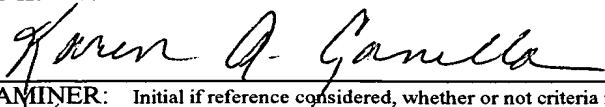
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						YES	NO
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
KAL	AA		Bodmer, W., "T-Cell Immune Responses to Cancer--A New Look," <i>Human Immunology</i> 30:259-261, 1991.				
1	AB		Bowen-Pope et al., "Production of platelet-derived growth factor-like molecules and reduced expression of platelet-derived growth factor receptors accompany transformation by a wide spectrum of agents," <i>Proc. Natl. Acad. Sci. USA</i> 81: 2396-2400, 1984.				
	AC		Brooks et al., "Human lymphocyte markers defined by antibodies derived from somatic cell-hybrids," <i>Clin. Exp. Immunol.</i> 39: 477-485, 1980.				
	AD		Brown et al., "Protein Antigens of Normal and Malignant Human Cells Identified by Immunoprecipitation with Monoclonal Antibodies," <i>Journal of Biological Chemistry</i> 255(11): 4980-4983, 1980.				
	AE		Burnette et al., "Western Blotting: Electrophoretic Transfer of Proteins from Sodium Dodecyl Sulfate-Polyacrylamide Gels to Unmodified Nitrocellulose and Radiographic Detection with Antibody and Radioiodinated Protein A," <i>Analytical Biochemistry</i> 112: 195-203, 1981.				
	AF		Coussens et al., "Tyrosine Kinase Receptor with Extensive Homology to EGF Receptor Shares Chromosomal Location with neu Oncogene," <i>Science</i> 230: 1132-1139, 1985.				
	AG		Dhut et al, "BCR-ABL and BCR Proteins: Biochemical Characterization and Localization," <i>Leukemia</i> 4(11): 745-750, 1990.				
	AH		Disis et al., "Existent T-Cell and Antibody Immunity to HER-2/neu Protein in Patients With Breast Cancer," <i>Cancer Res.</i> 54: 16-20, 1994.				
	AI		Falk et al., "Allele-specific motifs revealed by sequencing of self-peptides eluted from MHC molecules," <i>Nature</i> 351: 290-296, 1991.				
	AJ		Feller and de la Cruz, "Identifying antigenic T-cell sites," <i>Nature</i> 349: 720-721, 1991.				
✓	AK		Fisk et al., "Oligopeptide Induction of a Cytotoxic T Lymphocyte Response to HER-2/Neu Proto-oncogene in Vitro," <i>Cellular Immunology</i> 157:415-427, 1994.				
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Karen A. Gamella				7/3/01			
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<b>OTHER PRIOR ART</b> <small>(Including Author, Title, Date, Pertinent Pages, Etc.)</small>							
KAL	AA	Flanagan and Leder, "neu protooncogene fused to an immunoglobulin heavy chain gene requires immunoglobulin light chain for cell surface expression and oncogenic transformation," <i>Proc. Natl. Acad. Sci. USA</i> 85: 8057-8061, 1998.					
	AB	Igelhart et al., "Increased erbB-2 Gene Copies and Expression in Multiple Stages of Breast Cancer," <i>Cancer Research</i> 50: 6701-6707, 1990.					
	AC	Ioannides et al., "Antigens Recognized by T cells in Ovarian Cancer," in Abstracts of the Fourth International Conference of Anticancer Research, 21-25 Oct. 1992, Rethymnon, Crete, Greece, p. 1870.					
	AD	Ioannides et al., "CTL Clones Isolated from Ovarian Tumor Infiltrating Lymphocytes can Recognize Peptides with Sequences Corresponding to the HER2/neu Gene Product," <i>FASEB Journal</i> 6: A1404, Abstract No. 2711, 1992.					
	AE	Ioannides et al., "Cytotoxic T Cells Isolated From Ovarian Malignant Ascites Recognize a Peptide Derived From the HER-2/neu Proto-oncogene," <i>Cell. Immunol.</i> 151: 225-234, 1993.					
	AF	Ioannides et al., "Cytotoxic T-Cell Clones Isolated from Ovarian Tumour Infiltrating Lymphocytes Recognize Common Determinants on Non-Ovarian Tumour Clones," <i>Scand. J. Immunol.</i> 37: 413-424, 1993.					
	AG	Ioannides et al., "T-Cell Recognition of Oncogene Products: A New Strategy for Immunotherapy," <i>Molecular Carcinogenesis</i> 6: 77-82, 1992.					
	AH	Ioannides, "Antigens and vaccines of female genital cancers (Meeting abstract)," Cancerlit Database Abstract No. ICDB/93690682, 1992.					
	AI	Kallioniemi et al., "ERBB2 amplification in breast cancer analyzed by fluorescence in situ hybridization," <i>Proc. Natl. Acad. Sci.</i> 89: 5321-5325, 1992.					
	AJ	Kerns et al., "c-erbB-2 Expression In Breast Cancer Detected by Immunoblotting and Immunohistochemistry," <i>Journal of Histochemistry and Cytochemistry</i> 38(12): 1823-1830, 1990.					
↓	AK	Laemmli, U., "Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4," <i>Nature</i> 227: 680-685, 1970.					
EXAMINER <i>Karen A. Gamella</i>				DATE CONSIDERED 7/3/01			
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KAC	AA		Leitzel et al., "Elevated Soluble c-erbB2 Antigen Levels in the Serum and Effusions of a Proportion of Breast Cancer Patients," <i>Journal of Clinical Oncology</i> 10(9): 1436-1443, 1992.				
	AB		Lichtenstein et al., "Effects of .beta.-2 Microglobulin Anti-sense oligonucleotides on Sensitivity of HER2/neu Oncogene-Expressing and Nonexpressing Target Cells to Lymphocyte-Mediated Lysis," <i>Cellular Immunology</i> 141: 219-232, 1992.				
	AC		Lippman, M., "Potential Contributions of Breast Cancer Biology to Management of Breast Cancer," <i>Advances in Oncology</i> 8(3): 26-28, 1992.				
	AD		Maguire and Greene, "The neu (c-erbB-2) Oncogene," <i>Seminars in Oncology</i> 16(2): 148-155, 1989.				
	AE		Margalit et al., "Prediction Of Immunodominant Helper T Cell Antigenic Sites From The Primary Sequence," <i>Journal of Immunology</i> 138(7): 2213-2229, 1987.				
	AF		McGlynn et al., "Large-scale purification and characterisation of a recombinant epidermal growth-factor receptor protein-tyrosine kinase. Modulation of activity by multiple factors," <i>Eur. J. Biochem.</i> 207: 265-275, 1992.				
	AG		McKenzie et al., "Induction of Antitumor Immunity by Immunization with a Vaccinia Virus Vector Expressing and Oncogene-encoded Product," in <i>Vaccines</i> 88, Cold Spring Harbor Laboratory, 1988, pp. 19-23.				
	AH		Mietzner et al., "Purification and Characterization of the Major Iron-Regulated Protein Expressed By Pathogenic Neisseriae," <i>Journal of Experimental Medicine</i> 165: 1041-1057, 1987.				
	AI		Mori et al., "In Vitro and in vivo Release of Soluble erbB-2 Protein from Human Carcinoma Cells," <i>Japanese Journal of Cancer Research</i> 81: 489-494, 1990.				
	AJ		Paik et al., "Pathologic Findings From the National Surgical Adjuvant Breast and Bowel Project: Prognostic Significance of erbB-2 Protein Overexpression in Primary Breast Cancer," <i>Journal of Clinical Oncology</i> 8(1): 103-112, 1990.				
✓	AK		Parker et al., "Sequence Motifs Important For Peptide Binding To The Human MHC Class I Molecule, HLA-A2," <i>Journal of Immunology</i> 149(11): 3580-3587, 1992.				
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KAL	AA			Press et al., "Expression of the HER-2/neu proto-oncogene in normal human adult and fetal tissues," <i>Oncogene</i> 5: 953-962, 1990.			
	AB			Raines and Ross, "Platelet-derived Growth Factor. I. High Yields Purification and Evidence for Multiple Forms," <i>Journal of Biological Chemistry</i> 257(9): 5154-5159, 1982.			
	AC			Riberdy and Cresswell, "The Antigen-Processing Mutant T2 Suggests a Role for MHC-Linked Genes in Class II-Antigen Presentation," <i>Journal of Immunology</i> 148(8):2586-2590, 1992.			
	AD			Rothbard and Taylor, "A sequence pattern common to T cell epitopes," <i>EMBO Journal</i> 7(1): 93-100, 1988.			
	AE			Semba et al., "A v-erbB-related protooncogene, c-erbB-2, is distinct from the c-erbB-1/epidermal growth factor-receptor gene and is amplified in a human salivary gland adenocarcinoma," <i>Proc. Natl. Acad. Sci. USA</i> 82: 6497-6501, 1985.			
	AF			Spies et al., "A gene in the human major histocompatibility complex class II region controlling the class I antigen presentation pathway," <i>Nature</i> 348: 744-747, 1990.			
	AG			Stern et al., "Oncogene Activation of p185( <sup>neu</sup> ) Stimulates Tyrosine Phosphorylation In Vivo," <i>Molecular and Cellular Biology</i> 8(9): 3969-3973, 1988.			
	AH			Trowsdale et al., "Sequence encoded in the class II region of the MHC related to the 'ABC' superfamily of transporters," <i>Nature</i> 348: 741-744, 1990.			
	AI			Weiner et al., "A point mutation in the neu oncogene mimics ligand induction of receptor aggregation," <i>Nature</i> 339: 230-231, 1989.			
	AJ			Wide, L., "Solid Phase Antigen-Antibody Systems," in <i>Radioimmunoassay Methods</i> , Kirkham and Hunter (eds.), 1973, pp. 405-412.			
KAL	AK			Wisdom, G.B., "Enzyme-Immunoassay," <i>Clin. Chem.</i> 22(8): 1243-1255, 1976.			
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KAL	AB		Zabrecky et al., "The Extracellular Domain of p185/neu Is Released from the Surface of Human Breast Carcinoma Cells, SK-BR-3," <i>Journal of Biological Chemistry</i> 266(3): 1716-1720, 1991.				
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